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MINISFORUM DeskMini

MINISFORUM UM870 Slim Mini PC User Manual

Model: UM870 Slim

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your MINISFORUM UM870 Slim Mini PC. Please read this manual thoroughly before using the device to ensure proper functionality and longevity.

The MINISFORUM UM870 Slim Mini PC is a compact desktop computer designed for various applications, from light gaming and image editing to office work and multimedia consumption. It features an AMD Ryzen 7 8745H processor, integrated AMD Radeon 780M Graphics, and supports triple display output.

2. PACKAGE CONTENTS

Upon opening the package, verify that all items listed below are present and in good condition:

- 1x MINISFORUM UM870 Slim Mini PC
- 1x HDMI cable
- 1x US Power Adapter
- 1x Wall Mount
- 1x Manual (this document)



Figure 2.1: Included Accessories

If any items are missing or damaged, please contact MINISFORUM customer support immediately.

3. PRODUCT OVERVIEW

3.1 Front Panel



Figure 3.1: Front Panel Layout

- **Power Button:** Press to turn the Mini PC on or off.
- **USB 3.2 Type-A Ports (x2):** For connecting USB devices such as keyboards, mice, or external storage.
- **Audio Jack (x1):** For connecting headphones or speakers.
- **DMIC:** Digital Microphone.

- **Clear CMOS:** Button to reset BIOS settings.

3.2 Rear Panel

Space saving design

Wall mount allows you to install it behind your monitor/TV and transform it into an all-in-one desktop PC



Compact PC

Wall mount included for a neat desktop



Figure 3.2: Rear Panel Layout

- **DC 19V Power Input:** Connect the provided power adapter here.
- **RJ45 2.5G LAN Port:** For wired network connection.

- **HDMI Port:** Connect to a display for video and audio output (up to 8K@60Hz).
- **USB4 Port:** High-speed port for data transfer, video output (up to 8K@60Hz), and power delivery (65-100W input, 15W output).
- **DisplayPort (DP):** Connect to a display for video output (up to 4K@60Hz).
- **USB 2.0 Ports (x2):** For connecting USB devices.

4. SETUP GUIDE

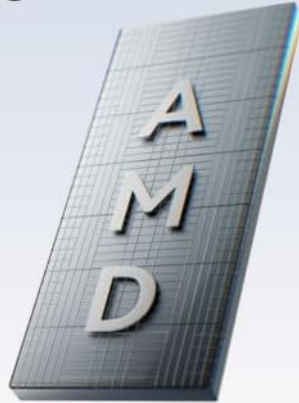
4.1 Initial Connection

1. **Connect to Display:** Use the provided HDMI cable to connect the Mini PC to your monitor or TV. You can also use the USB4 or DisplayPort for additional displays. The device supports up to three independent displays.
2. **Connect Peripherals:** Plug in your USB keyboard and mouse into the available USB ports on the front or rear panel.
3. **Network Connection:** For a wired connection, connect an Ethernet cable from your router to the 2.5G LAN port on the rear panel. For wireless, ensure your Wi-Fi network is available during the operating system setup.
4. **Power Connection:** Connect the US Power Adapter to the DC 19V input port on the rear panel, then plug the adapter into a power outlet.

Advanced Features

Radeon 780M Graphics

Based on
RDNA3,
frequency up
to 2600MHz



Equipped with USB4

Up to 40Gbps, support 8K@60Hz output
65-100W Power Delivery



Supports both wired and wireless

Wi-Fi 6E + BT5.3
2.5G WLAN



Dual channel DDR5

DDR5-5600MHz



PCIe4.0 SSD

2x M.2 2280(up to 4TB)



Figure 4.1: Basic Setup Connections

4.2 First Boot and Operating System Setup

1. Press the power button on the front panel. The power indicator light will illuminate.
2. The Mini PC will boot up. If an operating system (e.g., Windows) is pre-installed, follow the on-screen instructions to complete the initial setup, including language, region, network connection, and user account creation.

3. If no operating system is pre-installed, you will need to install one from a bootable USB drive or other media. Refer to the operating system's installation guide for detailed steps.

5. OPERATING INSTRUCTIONS

5.1 Power Management

- **Power On:** Press the power button once.
- **Shut Down:** From the operating system, select "Shut Down." Alternatively, press and hold the power button for 5-7 seconds for a forced shutdown (use only when necessary).
- **Sleep Mode:** From the operating system, select "Sleep." Press the power button or move the mouse/keyboard to wake the device.

5.2 Display Configuration

The UM870 Slim supports up to three displays simultaneously using its HDMI, USB4, and DisplayPort outputs. To configure multiple displays:

1. Connect your displays to the available video output ports.
2. In Windows, right-click on the desktop and select "Display settings."
3. From here, you can detect, arrange, and set the resolution and orientation for each connected display. Options include "Duplicate these displays," "Extend these displays," or "Show only on 1/2/3."

UM870 Slim MiNi PC

AMD Ryzen 7 8745H APU
Radeon 780M iGPU

4nm Processor

Technology

Zen4

Architecture

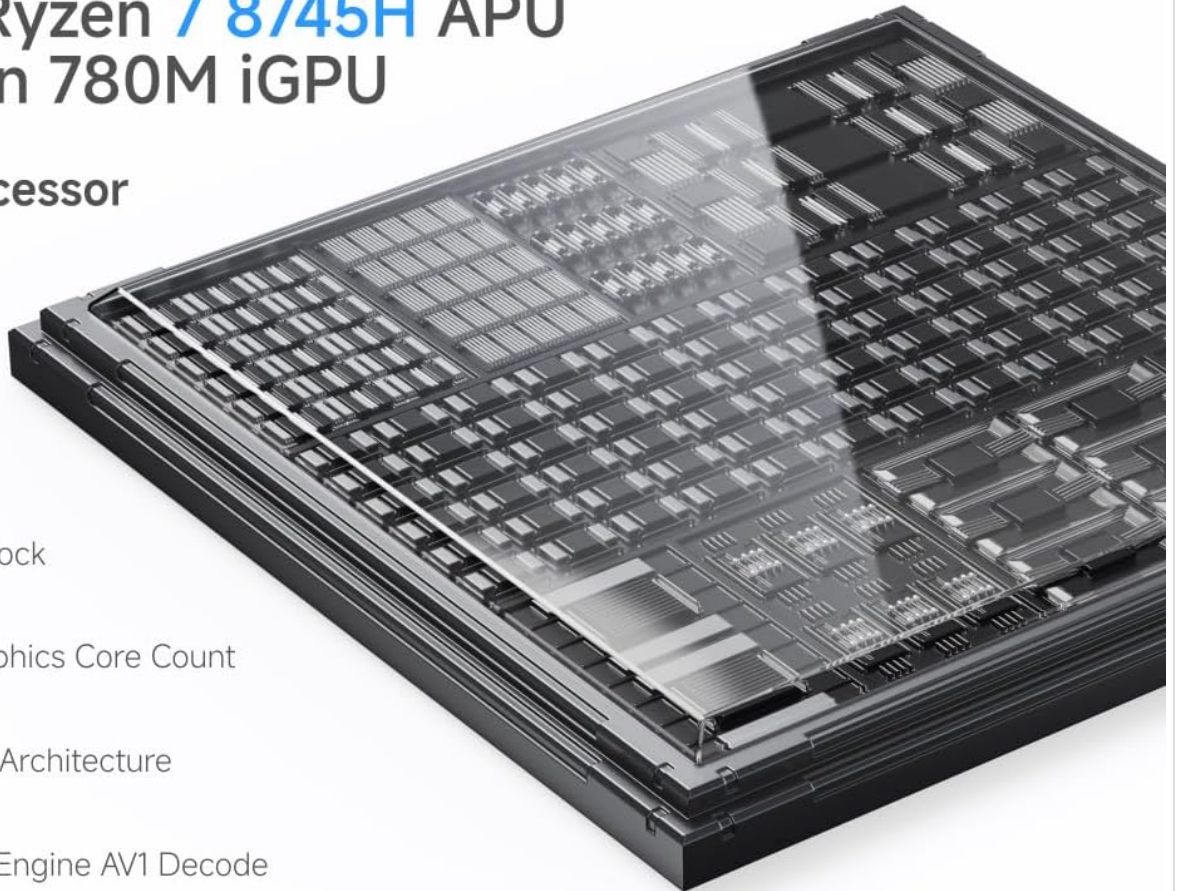
4.9GHz

Max. Boost Clock

12CU Graphics Core Count

RDNA 3 Architecture

VCN 4.0 Engine AV1 Decode



Performance Comparison

■ Fire Strike Extreme

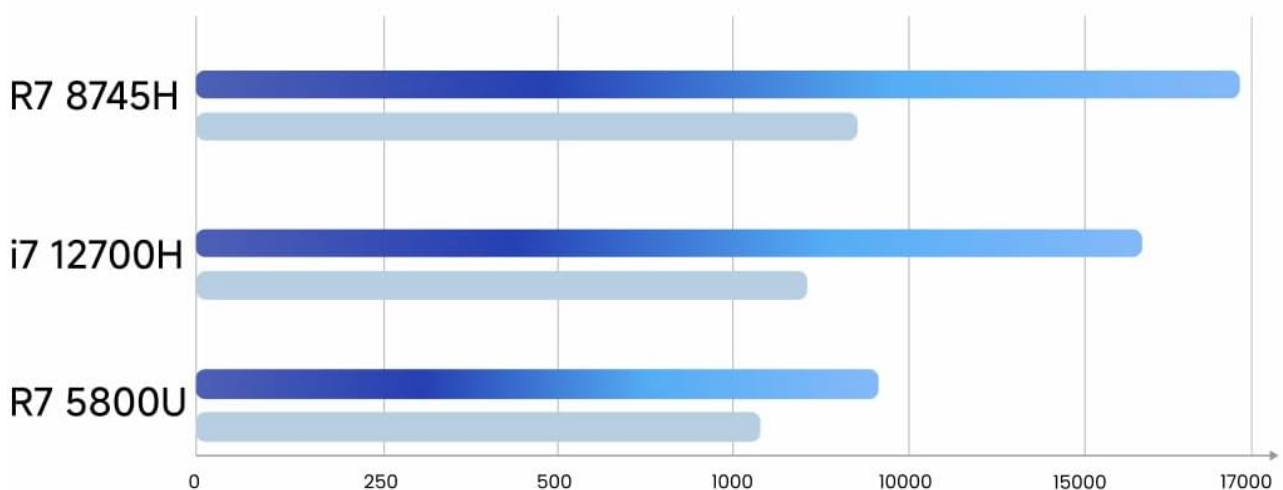


Figure 5.1: Triple Display Setup

5.3 Storage Expansion

The UM870 Slim Mini PC offers flexible storage expansion options:

- It comes with a 1TB 2280 PCIe4.0 SSD.
- There is an additional PCIe4.0 SSD slot available, supporting up to 2TB.

- The DDR5 RAM can be upgraded up to 48GB per SODIMM slot, with two slots available for a total of 96GB.

For detailed instructions on installing additional SSDs or RAM, please refer to the maintenance section or contact customer support.



Figure 5.2: Internal Storage and Memory Slots

6. MAINTENANCE

6.1 Cleaning

- Ensure the Mini PC is powered off and unplugged before cleaning.
- Use a soft, dry cloth to wipe the exterior of the device.
- For dust accumulation in vents, use compressed air. Do not insert any objects into the vents.
- Avoid using liquid cleaners or abrasive materials.

6.2 Driver Updates

Regularly update drivers for optimal performance and compatibility. Drivers can typically be found on the MINISFORUM official website or through your operating system's update utility.

6.3 BIOS Reset (Clear CMOS)

If you encounter boot issues or need to reset BIOS settings to default, locate the "Clear CMOS" button on the front panel (refer to Figure 3.1). With the device powered off and unplugged, press and hold this button for 5-10 seconds. Reconnect power and attempt to boot.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/won't turn on	Power adapter not connected; faulty power outlet; power button issue.	Ensure power adapter is securely connected to both the Mini PC and a working power outlet. Try a different outlet. Press the power button firmly.

Problem	Possible Cause	Solution
No display output	Incorrect display input selected; loose cable connection; display driver issue.	Check monitor input source. Ensure HDMI/DP/USB4 cables are securely connected. Try a different cable or port. Update display drivers after booting into safe mode if possible.
Slow performance	Too many applications running; insufficient RAM; full storage drive; overheating.	Close unnecessary applications. Consider upgrading RAM. Free up disk space. Ensure proper ventilation and clean vents.
No Wi-Fi/Bluetooth	Drivers not installed; Wi-Fi/Bluetooth disabled.	Install or update Wi-Fi/Bluetooth drivers from the MINISFORUM website. Check operating system settings to ensure Wi-Fi/Bluetooth is enabled.

8. SPECIFICATIONS

Feature	Detail
Model	UM870 Slim
Processor	AMD Ryzen 7 8745H (8C/16T, up to 4.9GHz)
Graphics	Integrated AMD Radeon 780M Graphics (2600 MHz)
RAM	32GB DDR5 (2x SODIMM slots, upgradable to 48GB per slot)
Storage	1TB 2280 PCIe4.0 SSD (2x M.2 PCIe4.0 SSD slots, up to 2TB each)
Video Output	HDMI 2.1 (8K@60Hz), USB4 (8K@60Hz), DisplayPort 1.4 (4K@60Hz) - Triple Display Support
LAN	1x 2.5Gbps RJ45 Port
Wireless Connectivity	Dual Band WiFi (802.11ax), Bluetooth
USB Ports	2x USB 3.2 Type-A (Front), 2x USB 2.0 (Rear), 1x USB4 (Rear)
Audio	1x Audio Jack (Front)
Operating System	OS (Pre-installed or user-installable)
Dimensions	Approx. 7.24 x 6.38 x 4.49 inches
Weight	Approx. 3.1 pounds

9. WARRANTY AND SUPPORT

9.1 Warranty Information

MINISFORUM provides a 1-year warranty for the UM870 Slim Mini PC. An extended 6-month warranty may be available upon product registration. Please retain your proof of purchase for warranty claims.

The warranty covers manufacturing defects and hardware malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact MINISFORUM customer support through their official website or the contact information provided in your product packaging.

MINISFORUM Official Website: www.minisforum.com

When contacting support, please have your product model (UM870 Slim) and serial number ready.

10. PRODUCT VIDEOS

UM870 SLIM Unboxing

Your browser does not support the video tag.

This video provides a visual guide to unboxing the MINISFORUM UM870 Slim Mini PC and its included accessories.

UM870 Slim for Display

Your browser does not support the video tag.

This video demonstrates the display capabilities of the MINISFORUM UM870 Slim Mini PC, including multi-monitor setups.